

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949307

Luminaire Tested: **GALN-SB4A-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-835-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17171 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

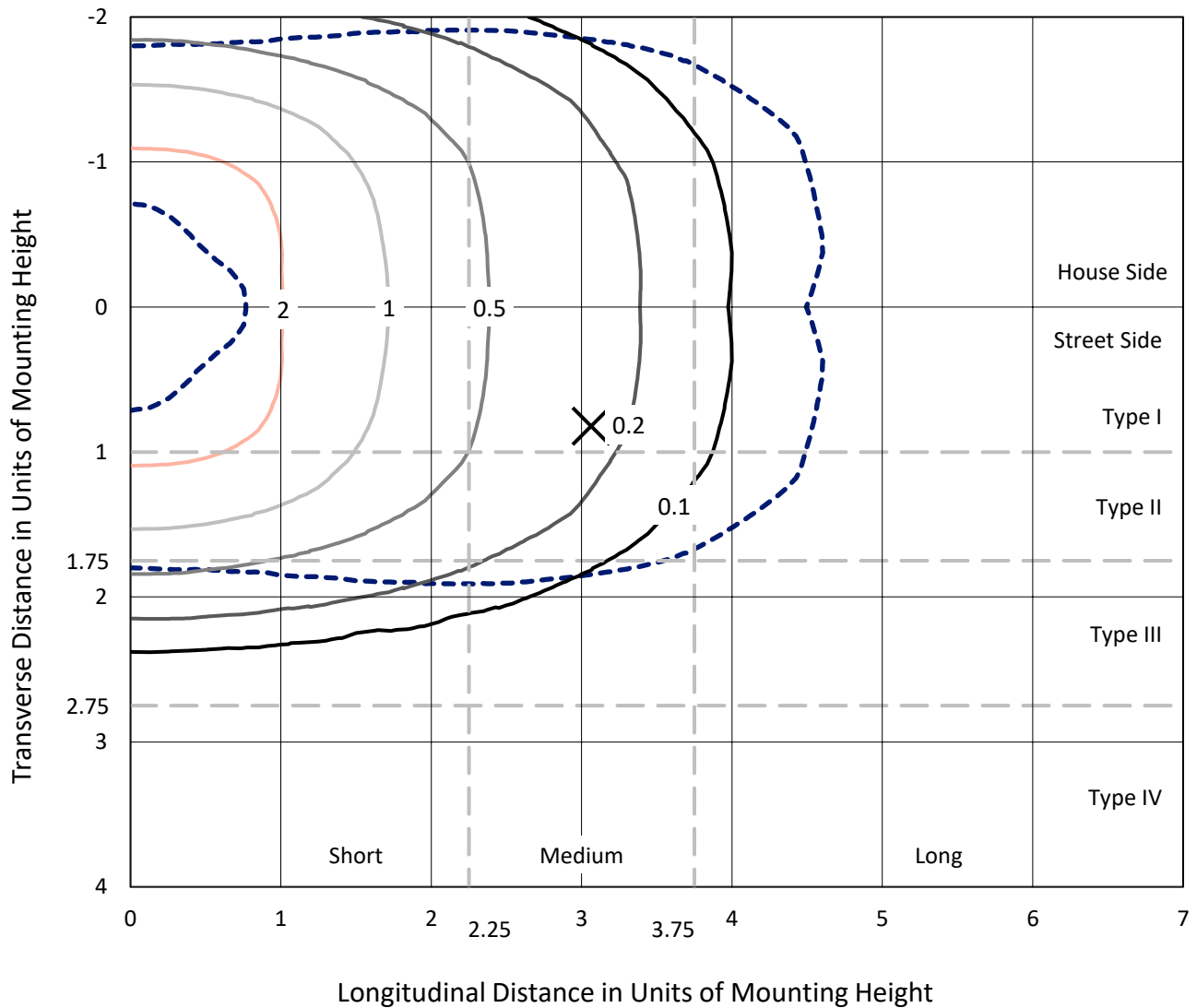
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

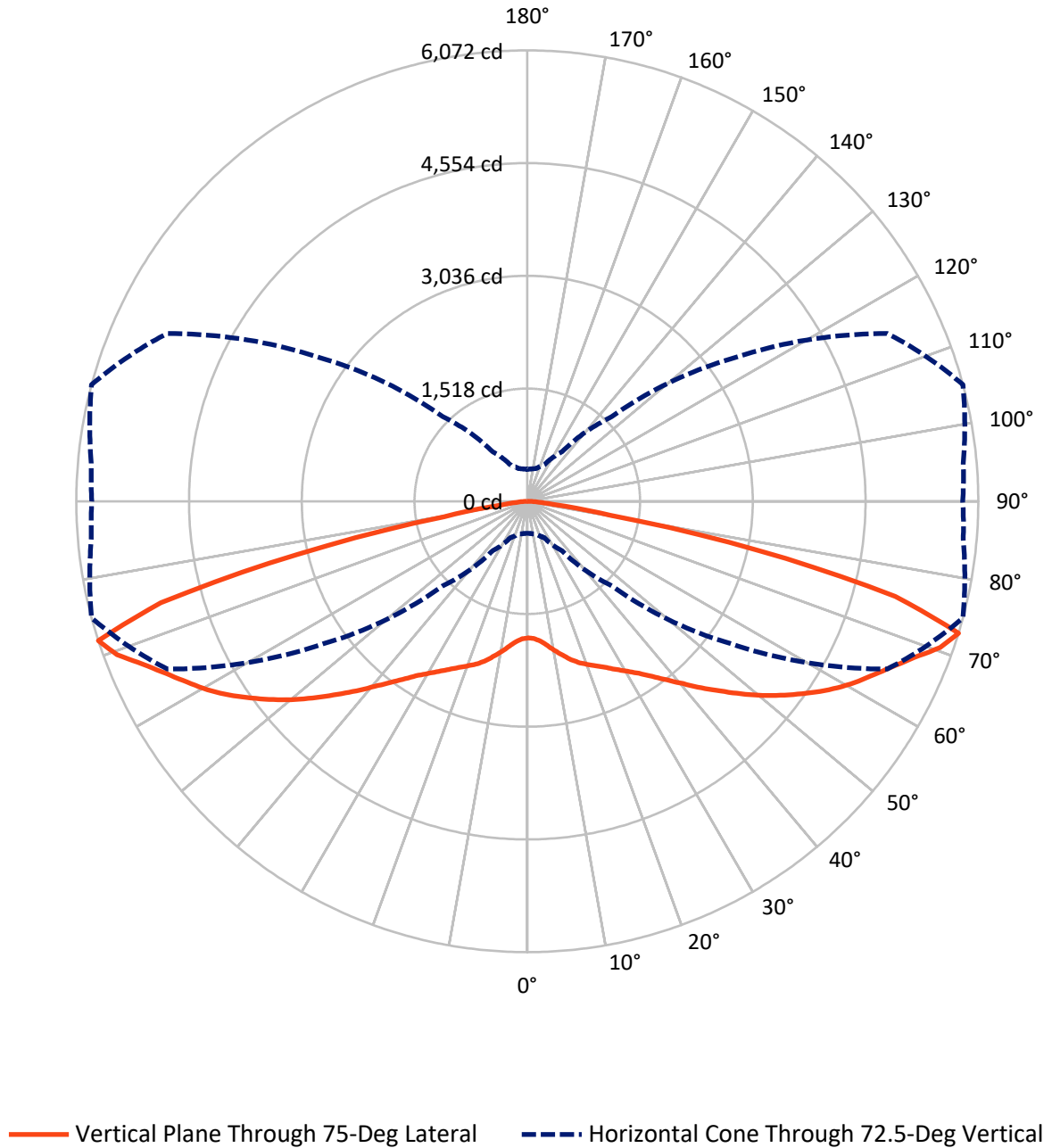
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8585.5	0.0	8585.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8585.5	0.0	8585.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17171.0	0.0	17171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	1.0
10°-20°	594.3	3.5
20°-30°	1148.3	6.7
30°-40°	1938.9	11.3
40°-50°	3075.0	17.9
50°-60°	4117.0	24.0
60°-70°	3918.1	22.8
70°-80°	2044.5	11.9
80°-90°	154.8	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17171.0	100.0
0°-180°	17171.0	100.0

Coefficient of Utilization



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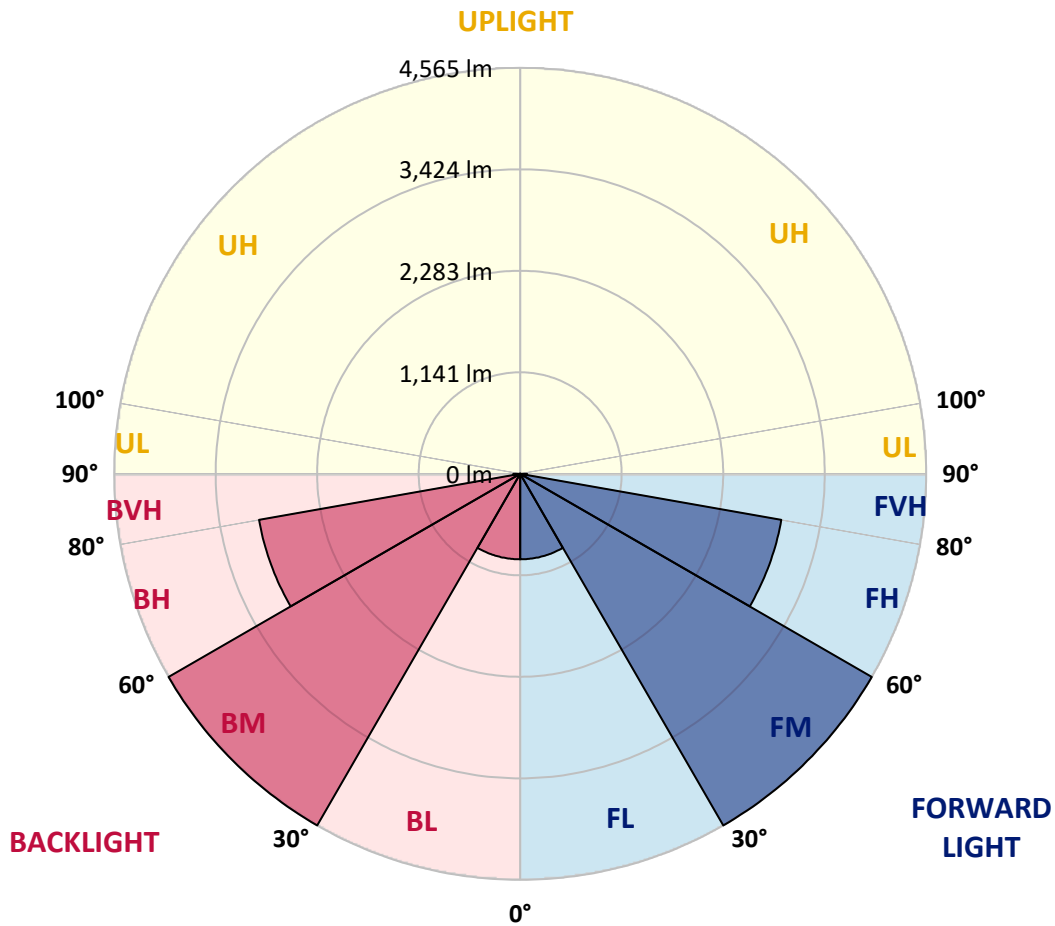
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.4	5.6			
FM (30°-60°)	4565.5	26.6			
FH (60°-80°)	2981.3	17.4			G2/5000
FVH (80°-90°)	77.4	0.5			G1/100
BL (0°-30°)	961.4	5.6	B2/1000		
BM (30°-60°)	4565.5	26.6	B3/5000		
BH (60°-80°)	2981.3	17.4	B4/5000		G4/5000
BVH (80°-90°)	77.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3	1839.3
2.5°	1839.3	1837.6	1839.3	1841.1	1840.2	1840.2	1844.6	1847.2	1852.5	1851.6
5°	1827.0	1826.2	1833.2	1841.1	1847.2	1857.7	1870.9	1880.5	1892.8	1895.4
7.5°	1820.9	1818.3	1830.6	1844.6	1863.9	1890.2	1915.6	1941.9	1962.9	1970.0
10°	1825.3	1826.2	1842.8	1869.1	1899.8	1936.6	1972.6	2017.3	2047.1	2054.1
12.5°	1845.5	1843.7	1871.8	1913.8	1955.9	2002.4	2044.5	2093.6	2126.0	2142.7
15°	1882.3	1878.8	1918.2	1980.5	2041.8	2096.2	2130.4	2176.9	2214.6	2235.6
17.5°	1926.1	1927.9	1979.6	2060.3	2140.9	2202.3	2234.7	2258.4	2287.3	2305.7
20°	2003.3	2006.8	2064.6	2160.2	2252.2	2322.4	2348.7	2339.9	2347.8	2361.8
22.5°	2106.7	2108.5	2173.3	2276.8	2373.2	2450.4	2467.9	2432.0	2410.1	2419.7
25°	2226.8	2238.2	2303.1	2409.2	2508.2	2581.9	2589.8	2535.4	2481.1	2483.7
27.5°	2373.2	2383.8	2449.5	2554.7	2655.5	2719.5	2718.7	2645.9	2566.1	2545.9
30°	2531.9	2543.3	2610.8	2719.5	2813.3	2869.4	2857.2	2770.4	2656.4	2618.7
32.5°	2720.4	2727.4	2795.8	2904.5	2991.3	3036.0	3010.6	2903.6	2761.6	2718.7
35°	2948.3	2958.9	3009.7	3112.3	3188.6	3225.4	3182.4	3056.2	2896.6	2848.4
37.5°	3208.7	3201.7	3259.6	3350.8	3413.9	3436.7	3377.9	3228.0	3050.9	2993.9
40°	3480.5	3477.0	3540.1	3627.8	3662.0	3676.0	3589.2	3425.3	3228.9	3167.5
42.5°	3726.9	3724.2	3809.3	3906.6	3947.8	3932.0	3822.4	3634.8	3434.9	3364.8
45°	3924.1	3920.6	4024.9	4161.7	4242.4	4216.1	4068.8	3866.3	3643.6	3570.8
47.5°	4075.8	4077.5	4189.8	4359.0	4500.1	4509.8	4320.4	4102.1	3873.3	3790.9
50°	4185.4	4190.6	4310.7	4498.4	4691.2	4776.3	4577.3	4344.1	4110.9	4017.9
52.5°	4212.6	4222.2	4366.9	4586.9	4814.0	4976.2	4838.5	4576.4	4336.2	4247.6
55°	4067.9	4087.2	4270.4	4579.9	4889.4	5107.7	5068.2	4812.2	4563.2	4472.1
57.5°	3735.6	3762.8	3976.7	4380.9	4872.7	5198.0	5246.2	5038.4	4790.3	4702.6
60°	3270.1	3302.5	3507.7	3948.7	4637.8	5231.3	5371.6	5258.5	4999.0	4913.9
62.5°	2567.9	2609.9	2855.4	3372.7	4141.5	5076.1	5478.5	5457.5	5186.6	5080.5
65°	1647.3	1692.0	1950.7	2561.7	3479.6	4600.9	5511.8	5651.2	5384.7	5236.5
67.5°	993.3	1013.5	1141.5	1552.6	2543.3	3884.7	5229.5	5866.0	5616.2	5432.0
70°	635.6	647.0	723.3	911.8	1437.8	2834.4	4529.9	5906.3	5896.7	5632.8
72.5°	431.3	434.8	455.0	540.0	813.6	1610.5	3341.1	5347.0	6072.0	5891.4
75°	315.6	334.9	367.3	382.2	462.0	804.8	1914.7	3756.7	5117.3	5196.2
77.5°	235.0	235.8	280.5	298.1	329.6	428.7	810.1	2097.1	3177.2	3335.9
80°	199.0	188.5	187.6	240.2	248.1	267.4	362.1	724.2	1138.0	690.0
82.5°	165.7	154.3	139.4	187.6	169.2	163.9	156.9	294.6	362.1	178.0
85°	115.7	110.5	105.2	122.7	96.4	82.4	75.4	137.6	152.5	75.4
87.5°	50.0	51.7	52.6	54.4	40.3	28.9	28.9	38.6	38.6	29.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1839.3
1850.7
1895.4
1971.7
2061.1
2149.7
2243.5
2314.5
2372.4
2426.7
2488.1
2552.1
2623.1
2729.2
2855.4
3004.5
3187.7
3382.3
3587.5
3815.4
4046.0
4270.4
4497.5
4722.8
4932.3
5092.8
5255.0
5446.1
5631.1
5863.4
5005.1
2975.5
521.6
151.7
66.6
21.9
0.0

OF REPORT)